Project Design Phase II

Personal Expense Tracker Application

Functional Requirements:

A **Functional Requirement** is a description of the service that the software must offer. It describes a software system or its component.

FR No.	Functional Requirement	Functional Requirement Description
FR 1	User Login	User needs to login through app's user interface and user authentication is done on the server side connected to IBM DB2.
FR 2	User Registration	A new user needs to register through the app and it is connected to the IBM DB2.
FR 3	Tracking income and expenses	Monitoring the income and tracking all expenditures (through bank accounts, mobile wallets, and credit & debit cards)
FR 4	Transaction Receipts:	Capture and organize your payment receipts to keep track of your expenditure.
FR 5	Payments & Invoices:	Accept and pay from credit cards, debit cards, net banking, mobile wallets, and bank transfers, and track the status of your invoices and bills in the mobile app itself. Also, the tracking app sends reminders for payments and automatically matches the payments with invoices.
FR 6	Detailed Reports:	The expense tracking app generates and sends reports to give a detailed insight about profits, losses, budgets, income, balance sheets, etc.
FR 7	In-depth insights and analytics:	Provides in-built tools to generate reports with easy-to-understand visuals and graphics to gain insights about the performance of your business.
FR 8	Recurrent Expenses:	Rely on your budgeting app to track, streamline, and automate all the recurrent

		expenses and remind you on a timely basis.
FR 9	Budget Vs. Actual Spent:	The user gets a detailed insight into the real-time income and expenditure. Thus, you can plan your budget strategically to reduce unnecessary expenses.
FR 10	Prediction:	With the help of AI, your mobile app can predict your next purchase, according to your spending behavior. Moreover, it can recommend products and provide unique insights on saving money. It brings out the factors causing fluctuations in your expenses.

Non Functional Requirements:

Non-Functional Requirement(NFR) specifies the quality attribute of a software system.

NRF No.	Non-Functional Requirement	Description
NRF 1	Security	User Information such as login information and data of expenditure must be stored securely in the cloud. Access to IBM DB 2 must be restricted and data leak must be avoided.
NRF 2	Reliability	Our application is reliable which addresses fault tolerance and proof to software failure.
NRF 3	Performance	Our application will provide upmost performance as it is a cloud application and also its response time is minimum.
NRF 4	Availability	Our application is available to the user 99.9% of the year as it is hosted on IBM DB2 which provides good back up to failures.

NRF 5	Scalability	Our application is hosted on IBM DB2 which will be a cloud application and it is easy to scale on cloud based on the demand of the application.